

# Project 1 - On an area you are not familiar with

The idea of this project is simple, based on our conversation and your experience, we want you to work on a problem you have not worked on in the past.

The goal of the project is to identify top crypto token traders for top 20 meme coins in solana.

## Why do we want to do this?

We want to build a mobile trading bot app that has a collection of top trader wallet addresses and uses machine learning to identify the best traders to copy based on customer risk profiles. Customers then pay a subscription fee to track when top traders buy and sell coins and copy trade.

## Directions

The whole project starts from collecting data to building a machine learning model to eventually building a mobile app. But as part of the interview assignment, you will be working on the first step of the project, data collection.

There are a number of ways you can do this, the way we have come up with is to use the website <https://dexscreener.com/>, if you go here, you can see a list of coin pairs, on the left side you can filter on different blockchains, if you filter on say solana, <https://dexscreener.com/solana> you will end up with coins in solana eco-system, from here you can filter on trending and sort by mcap on descending order <https://dexscreener.com/solana?rankBy=trendingScoreH24&order=desc>. Pick the top 20 meme coins, and if you click on one, it will take you to that coins page <https://dexscreener.com/solana/71hufmuyafefuna2x2r4hjrfnqhguagw3gumftol9tk>, from here, at the bottom, next to transactions tab you have a top traders tab, once you click on it, you can see the top 100 traders. In this the trader wallet address will not be visible, so to get that, what you would do is to get the link from the EXP column, if you identify the element, it will look like this:

```
<a target="_blank" rel="noopener noreferrer nofollow" class="chakra-link chakra-button custom-1hhf88o" aria-label="Open in block explorer" href="https://solscan.io/account/7dGrdJRYtsNR8UYxZ3TnifXGjGc9eRYLq9sELwYpuuUu" title="Open in block explorer">
```

Now if you get the href, you can see the solscan link:

<https://solscan.io/account/7dGrdJRYtsNR8UYxZ3TnifXGjGc9eRYLq9sELwYpuuUu>, in this, the wallet address would be what is after account: `7dGrdJRYtsNR8UYxZ3TnifXGjGc9eRYLq9sELwYpuuUu`

Your goal is to collect the addresses into a csv file.

For the 20 memes, you will end up with 2000 addresses in total.

If you identify a different, better, faster way of solving this problem, please note it down and we can discuss it during the call after you make the submission.

## How will you be evaluated?

- You can take however long you want to complete this, by that I mean, you can work on it hourly for the next week, two weeks or however long, but note how much time you spend on this each day. I want to know how long it will take you to solve this problem. I have a base duration that this problem was solved, and you will be evaluated based on how much quicker you can solve this.
- How clean is your code/solution: I look at basic optimizations and how fast your solution is in terms of run time and how much memory it consumes. Feel free to include any profiling.
- How tested is your code: how did you test whether your code accomplishes what you wanted to accomplish.
- Finally, whether your code gives the correct output, the 2000 addresses, I will compare this with the addresses the baseline solution collects.

**Submission:** Push your solution to GitHub and share the link, I will setup a follow up call after I have gone through your solution.